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**(54) RECOGNIZING DEVICE
OF SHAPE DEFECT**

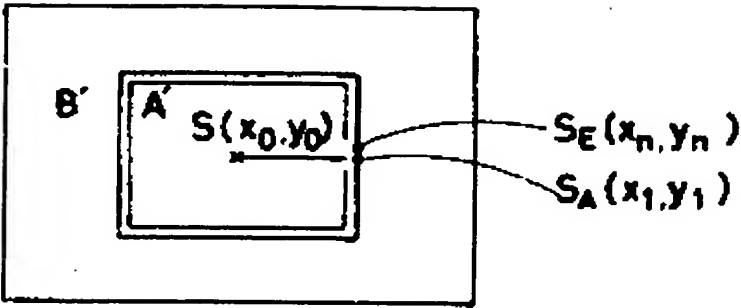
(57) Abstract:

PURPOSE: To make the recognition of a shape defect easy by only detecting the angular change of tangent of a border line.

CONSTITUTION: The border line is traced from a point SA(x1, y1) while viewing an object on the right. x-direction and y-direction addresses x1, y1 Wxn, yn of individual border points on the border line are stored successively in a scratch memory. When tracing of the border line is terminated, addresses of the border line are stored in the scratch memory. A difference $\Delta\theta$ of an angle θ of the border line vector is calculated on a basis of an address $xN+C$, $yN+2C$ stored in the (N+C)th address of the scratch memory and an address $xN+2C$, $yN+2C$ stored in the (N+2C)th address. It is checked whether a peak value of the difference $\Delta\theta$ is a prescribed value or larger or not and whether the position indicating the

peak value is adequate or not to
evaluate degrees of right angles of
four corners of a rectangle.

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x_1	y_1
$\}$	$\}$
x_n	y_n
$\}$	$\}$
x_{n+1}	y_{n+1}
$\}$	$\}$
x_{n+2}	y_{n+2}
$\}$	$\}$
x_n	y_n

